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1. Document ID: US 6548096 B1 WO 9952937 A1 ZA 9902566 A AU 9941184 A NO 200004979 A BR 9909542 A EP 1070726 A1 CZ 200003730 A3 SK 200001504 A3 CN 1296493 A KR 2001042515 A MX 2000009449 A1 HU 200101682 A2 RU 2179979 C1 JP 2000543493 X AU 753110 B NZ 507938 A

L3: Entry 1 of 1

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Apr 15, 2003

DERWENT-ACC-NO: 2000-023037

DERWENT-WEEK: 200329

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TITLE: New aspartame derivatives useful as sweeteners

INVENTOR: AMINO, Y; NAKAMURA, R ; TAKEMOTO, T ; YUZAWA, K ; AMINO, Y A

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
AJINOMOTO CO INC	AJIN
AJINOMOTO KK	AJIN

PRIORITY-DATA: 1999JP-0038190 (February 17, 1999), 1998JP-0097701 (April 9, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6548096 B1	April 15, 2003		000	A23L001/236
WO 9952937 A1	October 21, 1999	J	036	C07K005/075
ZA 9902566 A	December 29, 1999		036	A23L000/00
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NO 200004979 A	November 7, 2000		000	C07K005/075
BR 9909542 A	December 26, 2000		000	C07K005/075
EP 1070726 A1	January 24, 2001	E	000	C07K005/075
CZ 200003730 A3	April 11, 2001		000	C07K005/075
SK 200001504 A3	April 9, 2001		000	C07K005/075
CN 1296493 A	May 23, 2001		000	C07K005/075
KR 2001042515 A	May 25, 2001		000	C07K005/075
MX 2000009449 A1	March 1, 2001		000	A23L001/236
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RU 2179979 C1	February 27, 2002		000	C07K005/075
JP 2000543493 X	October 29, 2002		000	C07K005/075
AU 753110 B	October 10, 2002		000	C07K005/075
NZ 507938 A	November 22, 2002		000	C07K005/075

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## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6548096B1	March 11, 1999	1999WO-JP01210	Cont of
US 6548096B1	October 10, 2000	2000US-0684940	
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NZ 507938A	March 11, 1999	1999NZ-0507938	
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NZ 507938A		WO 9952937	Based on

X , AU 753110 B , NZ 507938 A INT-CL (IPC): A23 L 0/00; A23 L 1/236; C07 C 229/00;  
C07 K 5/075

ABSTRACTED-PUB-NO: WO 9952937A

BASIC-ABSTRACT:

NOVELTY - Aspartyl dipeptide ester derivatives (I) are new.

DETAILED DESCRIPTION - Aspartyl dipeptide ester derivatives of formula (I) and their salts are new.

R1-R5 = H, OH, 1-3C alkoxy, 1-3C alkyl or 2 or 3C hydroxyalkyloxy; or

R1+R2 or R2+R3 = methylenedioxy;

R6 = H or OH;

R7 = Me, Et, n or i-Pr or t-Bu;

provided that (I) in which R1 and R5 = H, R2 = OMe and R3 = OH is excluded.

USE - As low calorie sweeteners for use in e.g. pharmaceuticals, foodstuffs and drinks.

ADVANTAGE - (I) have a higher degree of sweetness compared to known compounds.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW ASPARTAME DERIVATIVE USEFUL SWEET

DERWENT-CLASS: B05 D13 E14

CPI-CODES: B06-A02; B10-B02F; B14-E11; D03-H01A; E06-A02E; E10-B02E;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222  
Specfic Compounds  
AOVRON

Chemical Indexing M3 \*01\*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222  
Specfic Compounds  
AOVRON

Chemical Indexing M2 \*02\*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222  
Specfic Compounds  
AOVRQN

Chemical Indexing M3 \*02\*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222

Specfic Compounds  
AOVRQN

Chemical Indexing M2 \*03\*

Fragmentation Code  
D022 D111 G010 G100 H1 H102 H181 J0 J013 J1  
J171 J2 J271 J3 J371 M210 M211 M272 M281 M312  
M313 M321 M322 M332 M342 M343 M349 M371 M373 M381  
M391 M412 M511 M520 M531 M540 M710 M904 M905 Q222

Specfic Compounds  
AOVRRN

Chemical Indexing M3 \*03\*

Fragmentation Code  
D022 D111 G010 G100 H1 H102 H181 J0 J013 J1  
J171 J2 J271 J3 J371 M210 M211 M272 M281 M312  
M313 M321 M322 M332 M342 M343 M349 M371 M373 M381  
M391 M412 M511 M520 M531 M540 M710 M904 M905 Q222

Specfic Compounds  
AOVRRN

Chemical Indexing M2 \*04\*

Fragmentation Code  
G010 G013 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212  
M272 M282 M312 M313 M321 M322 M332 M342 M343 M349  
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
M904 M905 Q222

Specfic Compounds  
AOVRSN

Chemical Indexing M3 \*04\*

Fragmentation Code  
G010 G013 G100 H1 H102 H181 H5 H541 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212  
M272 M282 M312 M313 M321 M322 M332 M342 M343 M349  
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
M904 M905 Q222

Specfic Compounds  
AOVRSN

Chemical Indexing M2 \*05\*

Fragmentation Code  
G010 G012 G100 H1 H102 H181 H4 H401 H441 H8  
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
M272 M281 M312 M313 M321 M322 M332 M342 M343 M349  
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
M904 M905 Q222

Specfic Compounds  
AOVRUN

Chemical Indexing M3 \*05\*

Fragmentation Code  
G010 G012 G100 H1 H102 H181 H4 H401 H441 H8  
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
M272 M281 M312 M313 M321 M322 M332 M342 M343 M349  
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
M904 M905 Q222

Specfic Compounds  
AOVRUN

Chemical Indexing M2 \*06\*

Fragmentation Code  
G013 G015 G100 H1 H102 H181 H4 H402 H442 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371

M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRVN

## Chemical Indexing M3 \*06\*

Fragmentation Code  
G013 G015 G100 H1 H102 H181 H4 H402 H442 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRVN

## Chemical Indexing M2 \*07\*

Fragmentation Code  
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRWN

## Chemical Indexing M3 \*07\*

Fragmentation Code  
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRWN

## Chemical Indexing M2 \*08\*

Fragmentation Code  
G010 G014 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRYN

## Chemical Indexing M3 \*08\*

Fragmentation Code  
G010 G014 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRYN

## Chemical Indexing M2 \*09\*

Fragmentation Code  
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222  
Specfic Compounds  
AOVRZN

## Chemical Indexing M3 \*09\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H5  
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371  
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342  
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532  
M540 M710 M904 M905 Q222

Specfic Compounds

AOVRZN

## Chemical Indexing M2 \*10\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H8  
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343  
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540  
M710 M904 M905 Q222

Specfic Compounds

AOVSON

## Chemical Indexing M3 \*10\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H8  
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343  
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540  
M710 M904 M905 Q222

Specfic Compounds

AOVSON

## Chemical Indexing M2 \*11\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M283 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222

Specfic Compounds

AOVS1N

## Chemical Indexing M3 \*11\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272  
M283 M312 M313 M321 M322 M332 M342 M343 M349 M371  
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904  
M905 Q222

Specfic Compounds

AOVS1N

## Chemical Indexing M2 \*12\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212  
M272 M283 M312 M313 M321 M322 M332 M342 M343 M349  
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
M904 M905 Q222

Specfic Compounds

AOVS2N

## Chemical Indexing M3 \*12\*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0  
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212

M272 M283 M312 M313 M321 M322 M332 M342 M343 M349  
 M371 M373 M381 M391 M414 M510 M520 M532 M540 M710  
 M904 M905 Q222  
 Specific Compounds  
 A0VS2N

## Chemical Indexing M2 \*13\*

Fragmentation Code  
 G010 G015 G100 H1 H102 H181 H4 H401 H441 H8  
 J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
 M240 M272 M281 M312 M313 M321 M322 M332 M342 M343  
 M349 M371 M373 M381 M391 M414 M510 M520 M532 M540  
 M710 M904 M905 Q222  
 Specific Compounds  
 A0VS3N

## Chemical Indexing M3 \*13\*

Fragmentation Code  
 G010 G015 G100 H1 H102 H181 H4 H401 H441 H8  
 J0 J013 J1 J171 J2 J271 J3 J371 M210 M211  
 M240 M272 M281 M312 M313 M321 M322 M332 M342 M343  
 M349 M371 M373 M381 M391 M414 M510 M520 M532 M540  
 M710 M904 M905 Q222  
 Specific Compounds  
 A0VS3N

## Chemical Indexing M2 \*14\*

Fragmentation Code  
 G010 G011 G012 G013 G014 G015 G016 G017 G018 G019  
 G100 H1 H102 H181 H401 H402 H403 H404 H405 H441  
 H442 H443 H444 H481 H482 H483 H484 H541 H542 H543  
 J0 J013 J1 J171 J2 J271 J3 J371 L660 L699  
 M210 M211 M212 M213 M214 M215 M216 M231 M232 M233  
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 M321 M322 M323 M331 M332 M333 M340 M342 M343 M349  
 M371 M373 M381 M383 M391 M392 M393 M414 M510 M520  
 M532 M540 M710 M904 M905 Q222  
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 200008-85301-N

## Chemical Indexing M3 \*14\*

Fragmentation Code  
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 J0 J013 J1 J171 J2 J271 J3 J371 L660 L699  
 M210 M211 M212 M213 M214 M215 M216 M231 M232 M233  
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 M321 M322 M323 M331 M332 M333 M340 M342 M343 M349  
 M371 M373 M381 M383 M391 M392 M393 M414 M510 M520  
 M532 M540 M710 M904 M905 Q222  
 Markush Compounds  
 200008-85301-N

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